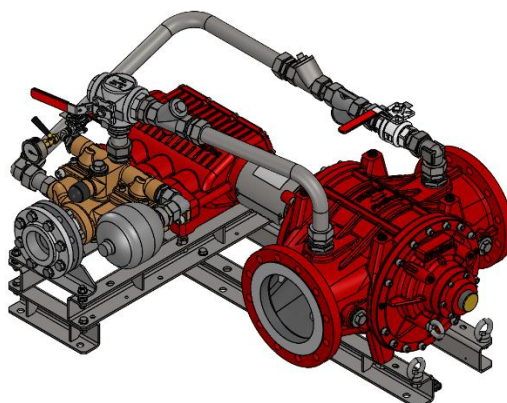


■ DATA SHEET PROPORTIONER FD8000 GEN III FOR STATIONARY EXTINGUISHING SYSTEMS.



■ 1. TECHNICAL DATA.

Type		FD8000/1-S	FD8000/3-S EV
Proportioning rate		1 %	3 %
Approvals ¹⁾	DNV	TAF00000GK	
	VdS	G425002	-
Flow directions of water motor		Horizontal: "left → right" or "right → left"	
		Vertical: "top → bottom" or "bottom → top"	
Min. water flow rate ²⁾		400 l/min	420 l/min
Max. water flow rate		8000 l/min	
Operating temperature ³⁾		5° C – 50° C	
Storage temperature		-20 °C – 80 °C	
Operating pressure		5 – 16 bar	
Weight ⁴⁾			
Freshwater version		218 kg	274 kg
Seawater version ^{x)}		397 kg	453 kg
ATEX classification ^{x)} for +5 °C ≤ T _a ≤ +60 °C		II 2G Ex h IIC T4 Gb II 2D Ex h IIIC T130 °C Db	

1) Information regarding DNV Approval conditions, see DNV Certificate TAF00000GK. For VdS Approval conditions, see VdS Certificate G425002

2) The nominal proportioning rate is achieved when reaching the specified minimum figure. Indication for proportioning of fluid Newtonian foam agents at operating pressure of 5 bar. For more detailed information, refer to page 2 item 3. "Minimum water flow rate".

3) Operating temp. is the max. ambient and medium (foam and extinguishing water) temperature. Max. foam agent temp. is generally limited to 50 °C.

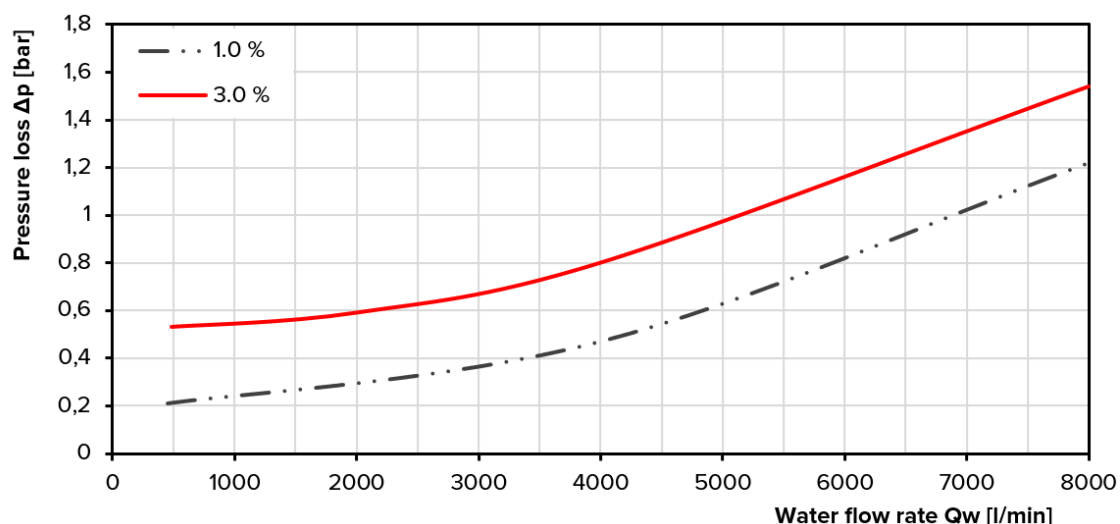
4) Weight indications are based upon the standard version in dry condition. Special versions will differ.

X) Optional equipment.



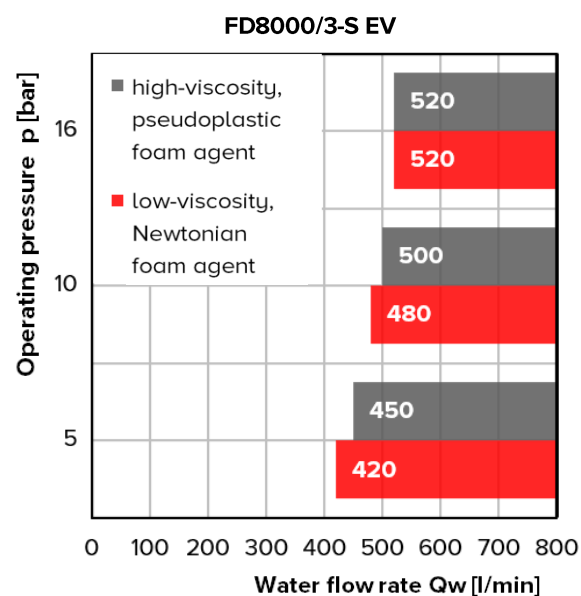
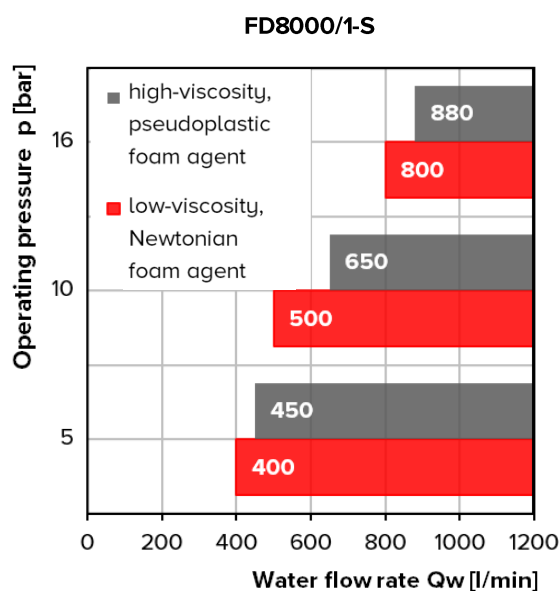
2. PRESSURE LOSS.

Indication valid for operating pressure of 10 bar. For more information on different system conditions please contact us.



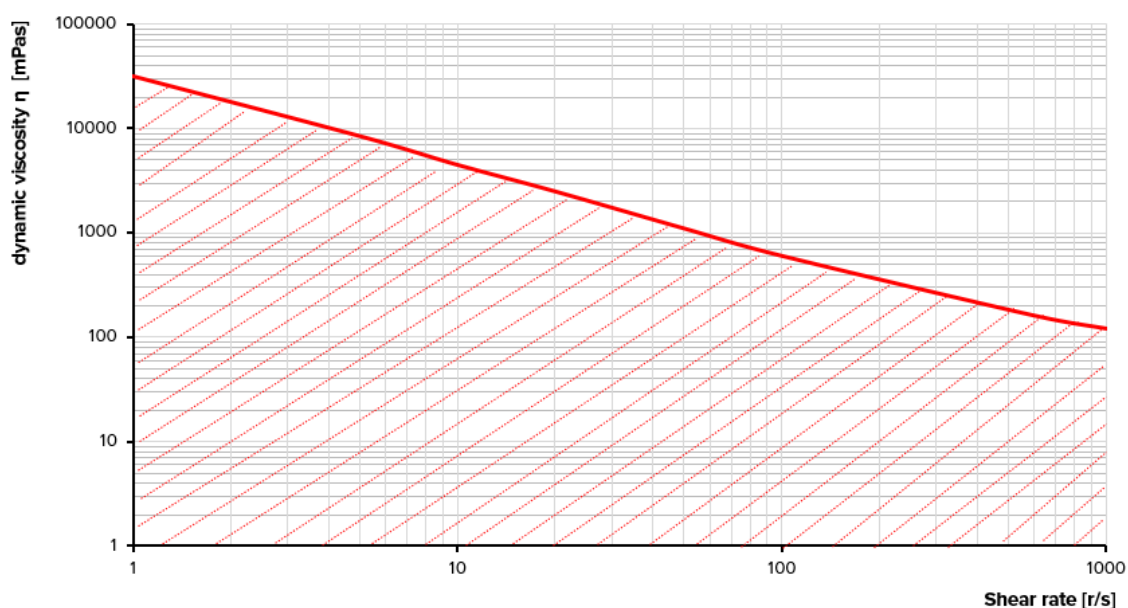
3. MINIMUM WATER FLOW RATE.

The following diagrams show the effect of the operating pressure and foam agent viscosity on the minimum water flow rate (valid for viscosities in the graph at para. 4). Values for high viscosity foam agent acc. to FM approval. Values for low-viscosity foam agent acc. to VdS certificate 425002.



4. FOAM AGENT VISCOSITY.

FireDos proportioners are suitable for all foam agents available on the market. For reference regarding units with an FM Approval, please find the corresponding/associated range of dynamic viscosity below (www.approvalguide.com). Contact us if the dynamic viscosity of your foam agent is higher than the values in the diagram. **Do not hesitate to request our support for the correct dimensioning of your suction line.**



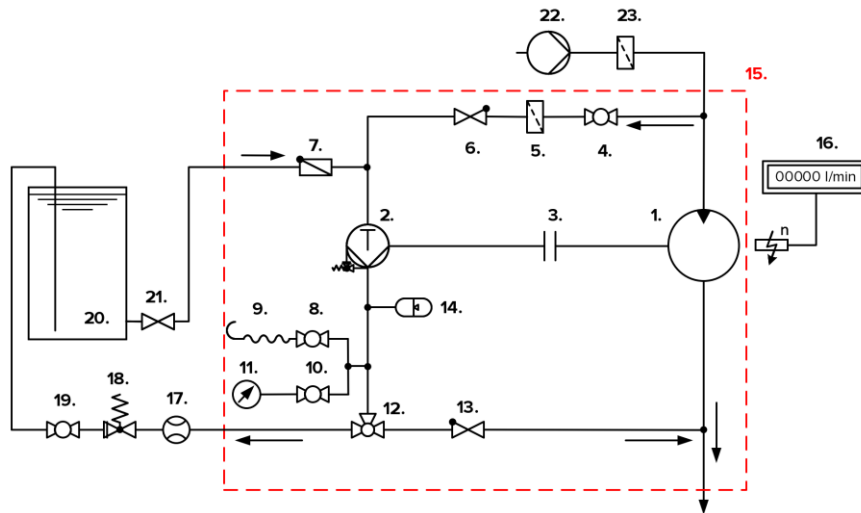
5. MATERIALS.

	Freshwater version	Seawater version
Water motor⁵⁾	Cast Aluminium G-AlSi7Mg HC-coated, AlMgSi1 HC-PTFE-coated, stainless steel 316 / 316Ti, POM, NBR, FKM, PET, PVDF, PEEK	Cast Bronze G-CuSn10, stainless steel 316 / 316Ti, Aluminium-Bronze CuAl10Fe5Ni5-C-GC, POM, NBR, FKM, PET, PVDF, PEEK
Proportioning pump⁵⁾	Stainless steel 316 / SS316Ti / 318 LN, POM, FKM, Aluminium oxide ceramic Al ₂ O ₃ , Aluminium-Bronze CuAl10Ni5Fe5-C-GC, PEEK	
Pipework⁵⁾	Stainless steel 316 / CF8M / SS316Ti, PTFE, FKM	
Air bleed⁵⁾	Stainless steel 316 / CF8M / SS316Ti, PTFE, brass	Stainless steel 316 / CF8M / SS316Ti, PTFE
Support frame	Stainless steel 304 / 316	

⁵⁾ media-exposed materials

■ 6. FLOW DIAGRAM.

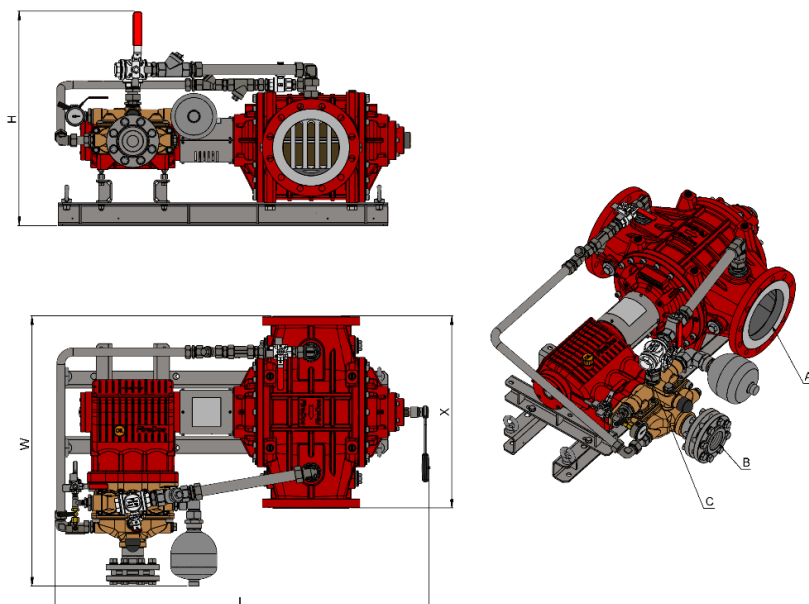
Proportioning rate 1% and 3%



- | | |
|--|---|
| 1. Water motor | 13. Check valve in the proportioning line |
| 2. Proportioning pump | 14. Pulsation damper |
| 3. Coupling | 15. Standard scope of supply of FireDos proportioner |
| 4. 2-way ball valve "Flushing/Priming" | 16. Revolution counter with flow rate display ^{x)} |
| 5. Filter in the flushing line | 17. Flow meter for return line ^{x)} |
| 6. Check valve in the flushing line | 18. Pressure sustaining valve for return line ^{x)} |
| 7. Non-return valve in the suction line | 19. 2-way ball valve in return line ^{x)} |
| 8. Air bleed valve | 20. Foam agent supply |
| 9. Air bleed hose | 21. Shut-off valve in the suction line |
| 10. Shut-off valve pressure gauge | 22. Extinguishing water supply |
| 11. Pressure gauge | 23. Water filter |
| 12. 3-way ball valve "Returning/Proportioning" | |

^{x)} Special version

7. EXAMPLE FIGURE / DIMENSIONS.



Type	FD8000/1-S	FD8000/3-S EV
Proportioning rate	1 %	3 %
Connection water motor A	Optionally: - Flange acc. DIN EN 1092-1, DN200 PN16 RF (Standard) - Flange acc. ASME B16.5, 8" Class 150 RF	
Installation length water motor X ⁶⁾	670 mm	
Connection suction line B	2½" MT BSP or Flange acc. ASME B16.5 2½" Class 150 X)	3" FT BSP or Flange acc. ASME B16.5 3" Class 150 X)
Connection return line C	1¼" FT BSP or 1¼" MT NPT X)	2" FT BSP or 2" MT NPT X)
Length L ⁶⁾	1350 mm	1400 mm
Width W ⁶⁾	855 mm	950 mm
Height H ⁶⁾	750 mm	820 mm

All figures are approximate only and depend on the particular version / equipment options.

X) Special version.

6) Further accessories to the proportioner may require more installation space.

Please allow sufficient accessibility of the proportioner for maintenance work. For assistance to ensure sufficient accessibility, please refer to our planning manual for proportioners.

8. MANUFACTURER.

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Phone +49 (0) 6036 9796-0, Email: info@firedos.de

We reserve the right to make modifications at any time.